

FACILITY STATUS CHANGE FORM

Date Submitted: August 1, 2013 Originator: Chris Strand Phone: 554-2720	Area: 300 Area Facility ID: 3716 Action Memorandum: Action Memorandum #1	Control #: D4-300-020-1
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This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.

Section 1: Facility Status

- ☒ All D4 operations required by action memo complete.
- ☐ D4 operations required by action memo partially complete, remaining operations deferred.

Description of Completed Activities and Current Conditions:

Deactivation: Utility isolations were completed on the facility prior to beginning removal actions.

Decontamination and Decommissioning: The following hazardous materials were removed prior to demolition; oils, asbestos containing materials, mercury, and Freon.

Demolition: Demolition of the above-grade structures was completed in January 2006 with building debris disposed of at ERDF. Demolition of the slab and foundation were at that time deferred to adjacent waste sites UPR-300-17 and 300-15 remedial actions (reference D4-300-020). Both waste sites underwent subsequent remedial actions that were performed in 2009 and 2012 respectively.

Description of Deferral (as applicable):

None.

Section 2: Underlying Soil Status

- ☐ No waste site(s) present. No additional actions anticipated.
- ☒ Documented waste site(s) present. Cleanup and closeout to be addressed under Record of Decision.
- ☐ Potential waste site discovered during D4 operations. Waste site identification number <to be> assigned.
Cleanup and closeout to be addressed under Record of Decision.

Description of Current/As-Left Conditions:

Following below-grade demolition of the slab, foundation, and press pit, the area underwent closure verification sampling and GPERS surveys were performed. The excavation was then backfilled with clean fill and revegetated in February of 2013.

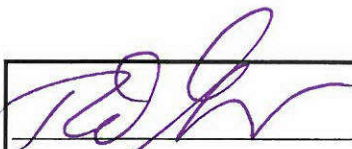
Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):

300-15:2, process sewer north of Apple Street, interim closed.
UPR-300-17, metal shavings fire, interim closed.

Section 3: List of Attachments

1. Facility Information (building history and characterization).
2. Project photographs.
3. GPERS surveys.

FACILITY STATUS CHANGE FORM

		<u>8/5/13</u>
DOE-RL <u>Larry Gadbois</u>		Date <u>Aug 5, 2013</u>
Lead Regulator	<input checked="" type="checkbox"/> EPA <input type="checkbox"/> Ecology	Date

DISTRIBUTION:

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Ecology: Rick Bond, HO-57

DOE: Rudy Guercia, A3-04

Document Control, H4-11

Administrative Record, H6-08 (300-FF-2 OU)

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D4 EPL: Chris Strand, L4-45

Sample Design/Cleanup Verification: Theresa Howell, H4-23

FR Engineering: Eric Ison, L1-13

FR EPL: Chris Strand, L4-45

Attachment 1: Facility Information

Building History:

The 3716 Building was a 4,800 square feet corrugated metal, steel framed structure resting on a reinforced concrete slab. It was originally constructed in the 1940's as the TC-36 Automotive Repair Shop. The structure was mounted 1.3m (4 ft) above grade on concrete wall with concrete floor slab on grade. In 1962, the building was relocated from its original location to a site just south of the 333 building and renamed as the Metallurgical Development Laboratory.

As such, it served as an engineering pilot plant to develop alternate fuel fabrication processes, including the Hot Die Size (nickel plating) process. In late 1969, a 500-ton vertical extrusion press was installed to aid several experimental fuel fabrication processes. Later on, most of the fabrication piloting operations were consolidated into the 306 building, leaving the 3716 building as a storage building for uranium fuel supplies and fabrication equipment.

The building had electrical power, a process water supply, and connections to both sanitary and process sewers. The 3716 building was posted as a Radiologically Controlled Facility and was included on the Hanford Beryllium Facilities list.

Building Characterization:

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 3716 Building.

Table 1. Summary of Characterization Surveys at 3716.

Type	Date	Documented In	Results Summary
Radiological Scoping surveys	9/14/05 9/14/05 11/21/05 12/14/05	RSR-300-PS-05-0796 RSR-300-PS-05-0797 RSR-300-PS-05-1190 RSR-300-PS-05-1308	The highest reading for fixed contamination was 60,000 beta-gamma and less than 5000 alpha. All measurements for removable contamination were below method detection limits.
	3/11/08	RSR-300-PS-08-0795 (slab only)	One FCA remained on slab.
Industrial Hygiene Scoping Surveys for Beryllium (Wipe Samples)	9/24/05 6/13/06	CCN 123795 CCN 126623	Of the 50 samples, 23 were found to have beryllium surface levels greater than the release criteria of 0.2µg/100cm ²
	3/24/07	CCN 135340 (slab only)	Slab non-Be.
Asbestos	12/8/05	CCN 125098	Friable TSI, Category I and Category II materials present in the form of pipe insulation, flooring, and mastic.

^a – dpm/100 cm²

Attachment 2: Project Photographs

Photograph 1. 3716 Building before demolition, looking west in March 1987.



Photograph 2. 3716 site after demolition, looking east on January 2006.



Photograph 3. 3716 press pit during removal, looking on January 2013.



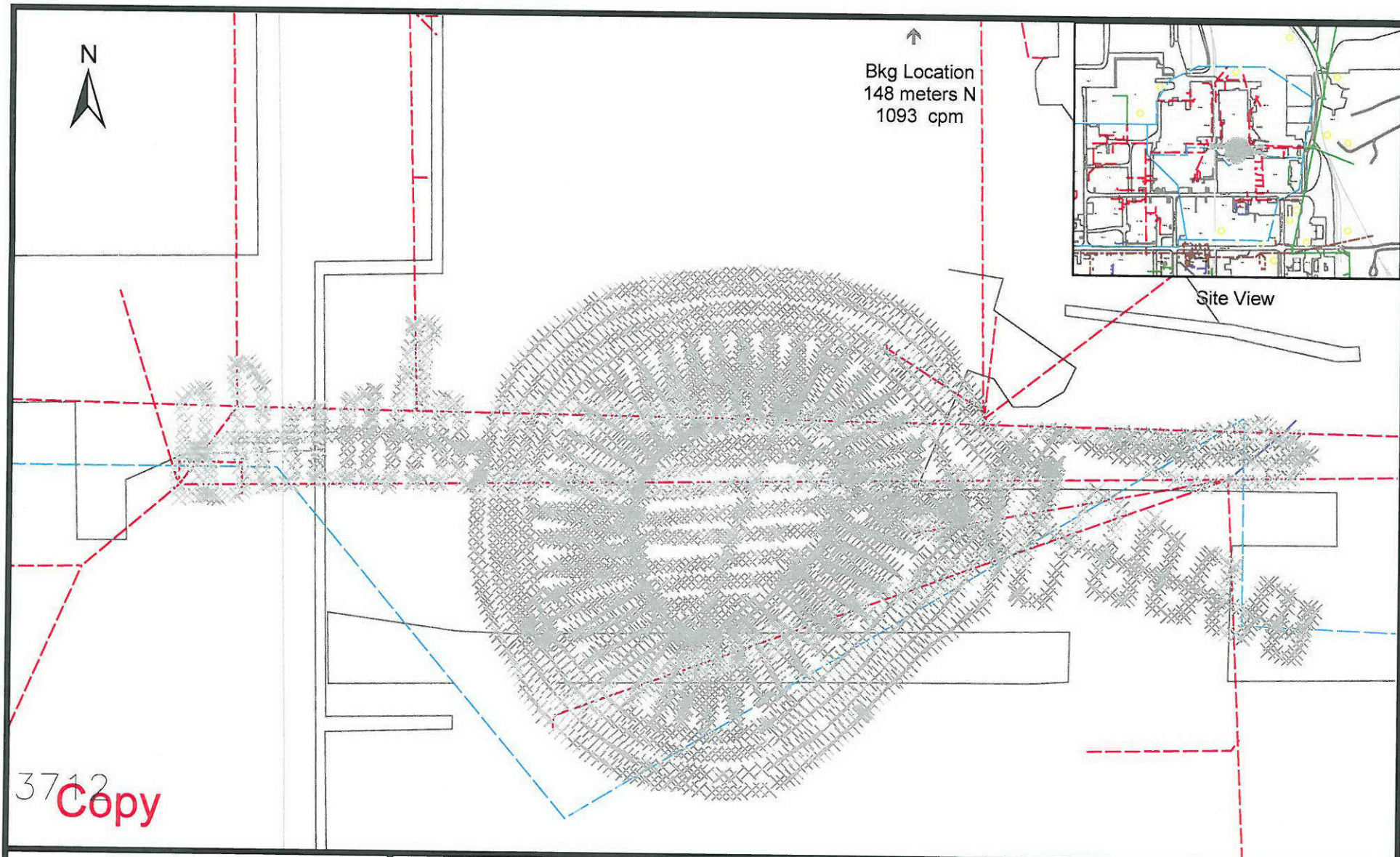
Photograph 4. 3716 excavation following slab, foundation, and press pit removal, looking north east on January 2013.



Photograph 5. North of Apple backfilled and revegetated looking southwest on February 2013.



**Attachment 3: GPERS Survey of the 3716 Excavation
(Gamma Survey)**



Legend

NET CPM

- × <1693
- 1693 - 5000
- 5000 - 10000
- 10000 - 25000
- 25000

Summary Statistics

Coverage File: D4_011.A
 Number of Data Pnts: 3510
 Type of Survey: gamma
 Max GCPM: 1728
 Avg Bkg CPM: 1093
 Survey Date: 1/11/2013
 Area Surveyed: 2,450 m²
 Project File: ESRFRM130007
 Pdf File: ESRFRM130007C

300D4 3716 Press Pit GPERS Radiological Survey Gamma Track Map

0 5 10 15 20
Meters



Survey Map Prepared By Bruce Coomer, ESI